

(9) Appendix

Claims:

1. A process for the production of potassium hydroxy citric acid, which potassium hydroxy citric acid is not in the form of a lactone, comprising the steps of:

- a) providing Garcinia fruit;
 - b) extracting the Garcinia fruit with an alkyl alcohol to obtain an extract;
 - c) repeating step b) to obtain another extract;
 - d) combining the extracts of steps b) and c) to obtain a combined extract;
 - e) treating the combined extract with potassium hydroxide to obtain a treated extract;
 - f) refluxing the treated extract to obtain potassium hydroxy citrate precipitate;
 - g) isolating the precipitate;
 - h) washing the precipitate with an alkyl alcohol to obtain a washed precipitate;
- and thereafter
- i) drying the washed precipitate to obtain dried potassium hydroxy citric acid.

2. The process of claim 1 comprising:

- a) providing Garcinia fruit;
- b) extracting the Garcinia fruit with methanol at reflux temperature and collecting the extract;
- c) repeating step b) an additional two times;
- d) combining the three extracts of steps b) and c);

e) treating the combined extracts with methanolic potassium hydroxy at about pH 10 and reflux for about three hours to precipitate potassium hydroxy citrate;

f) filter the precipitate;

g) wash with methanol and dry under vacuum; and

h) mill, sift, blend, and pack the dried product under nitrogen.

5. A new technological process for commercial manufacturing of potassium hydroxy citric acid from natural source, which potassium hydroxy citric acid is not in the form of a lactone, said process comprising the steps of:

a) providing Garcinia fruit;

b) extracting the Garcinia fruit with an alkyl alcohol to obtain an extract;

c) repeating step b) an additional two times to obtain another extract;

d) combining the extracts of steps b) and c) to obtain a combined extract;

e) treating the combined extract with potassium hydroxide to obtain a treated extract;

f) refluxing the treated extract to obtain potassium hydroxy citrate precipitate;

g) isolating the precipitate;

h) washing the precipitate with an alkyl alcohol to obtain a washed precipitate; and thereafter

i) drying the washed precipitate to obtain dried potassium hydroxy citric acid.

6. The new technological process according to claim 5, further comprising milling, sifting, blending and packing the dried potassium hydroxy citric acid under nitrogen.

16. The process of claim 5, wherein the Garcinia fruit is *Garcinia cambogia* or *Garcinia indica* fruit.

17. The process of claim 16, wherein the Garcinia fruit is *Garcinia cambogia*.